# **SIEMENS**

Data sheet 3RT2446-1NB30



contactor AC-1, 140 A, 690 V / 40 °C, 3-pole, 20-33 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, main circuit: box terminal, control and auxiliary circuit: screw terminal size: S3

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT24
General technical data	
size of contactor	S3
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	29.4 W
at AC in hot operating state per pole	9.8 W
without load current share typical	1.8 W
insulation voltage	
of main circuit with degree of pollution 3 rated value	1 000 V
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
of main circuit rated value	8 kV
of auxiliary circuit rated value	6 kV
shock resistance at rectangular impulse	
• at AC	10.3g / 5 ms, 6,.g / 10 ms
• at DC	6.7 g / 5 ms, 4g / 10 ms
shock resistance with sine pulse	
• at AC	16.3g / 5 ms, 10.g / 10 ms
• at DC	10.6 g / 5 ms, 6.3 g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	04/27/2017
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3

number of NC contacts for main current trouts         AC           opperational current         C           e at AC-1         AC           — op to 680 V at ambient temperature 40 °C rated value on 680 V at ambient temperature 65 °C roted         130 A           — op to 680 V at ambient temperature 60 °C rated value value on 100 V at ambient temperature 80 °C rated value valu	number of NO contacts for main contacts	3
perational current  ■ at AC-1  — up to 680 V at ambient temperature 40 °C rated value — up to 600 V at ambient temperature 60 °C rated value — up to 600 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — at 600 V rated value		
perational current  ■ at AC-1  — up to 680 V at ambient temperature 40 °C rated value — up to 600 V at ambient temperature 60 °C rated value — up to 600 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — at 600 V rated value	type of voltage for main current circuit	
* at AC-1		
—	•	
Name   Page   1900 V at ambient temperature 60 °C rated value   Page   1900 V at ambient temperature 60 °C rated value   Page   1900 V at ambient temperature 60 °C rated value   Page   1900 V at ambient temperature 60 °C rated value   Page   Pag	— up to 690 V at ambient temperature 40 °C rated	140 A
value   valu		130 A
walue   walu		130 A
value   valu	·	60 A
at 400 V rated value	value	60 A
— at 680 V rated value   44 A		ΛΛ Δ
Infinitural cross-section in main circuit at maximum AC-1 rated value   1 000 1/h		
value         1 000 1/h           • at AC         1 000 1/h           • at DC         1 000 1/h           operating frequency at AC-1 maximum         660 1/h           Control circuit/ Control           Type of voltage of the control supply voltage         AC/DC           control supply voltage at AC         a 150 Hz rated value         20 33 V           e at 50 Hz rated value         20 33 V           control supply voltage at DC         a 150 Hz rated value         20 33 V           operating range factor control supply voltage rated value of magnet coil at DC         AC/DC           e rated value         0.8         4 1 1           operating range factor control supply voltage rated value of magnet coil at AC         1.1           e initial value         0.8         1.1           a 150 Hz         0.8         1.1           a 150 Hz         0.8         1.1           design of the surge suppressor         with value         0.8           intral peak         0.5         0.5           duration of inrush current peak         6.5 A           docked-rotor current peak         6.5 A           locked-rotor current peak         1.50 ms           holding current mean value         3.5 VA		
• at AC		30 111111
• at DC   1000 t/h	no-load switching frequency	
operating frequency at AC-1 maximum         650 t/h           Control (credit) Control           type of voltage         AC/DC           type of voltage of the control supply voltage         AC/DC           control supply voltage at AC         C           a 15 0Hz rated value         20 33 V           a face Hz rated value         20 33 V           carlad value         20 33 V           operating range factor control supply voltage rated value of magnet coil at DC         AC/DC           s initial value         0.8           initial value         0.8           initial value         0.8           a 10 Hz         0.8           a 11 scale value         0.8           operating range factor control supply voltage rated value of magnet coil at AC         AC           a 150 Hz         0.8         1.1           design of the surge suppressor         with variator           inrush current peak         6.5 A           docked-rotor current mean value         3.2 A           locked-rotor current mean value         3.2 A           docked-rotor current mean value         4.5 A           a 150 Hz         3.5 VA           a 150 Hz         3.5 VA           a 150 Hz         3.5 VA	• at AC	1 000 1/h
Control circuit/ Control         Corporation           type of voitage of the control supply voitage         AC/DC           control supply voitage at AC         Corporation           • at 50 Hz rated value         20 33 V           • at 60 Hz rated value         20 33 V           control supply voitage at DC         30 V           • rated value         20 33 V           operating range factor control supply voitage rated value of magnet coil at DC         80           • initial value         0.8           • full-scale value         0.8           operating range factor control supply voitage rated value of magnet coil at AC         0.8 1.1           • at 60 Hz         0.5 A           duration of inrush current peak         0.5 A           locked-rotor current peak         0.5 A           duration of locked-rotor current         150 ms           holding current mean value         75 mA           • at 60 Hz         163 VA           • at 60 Hz         3.5 VA           • at 60 Hz <td>• at DC</td> <td>1 000 1/h</td>	• at DC	1 000 1/h
type of voltage         AC/DC           type of voltage of the control supply voltage         AC/DC           control supply voltage at AC         C           • at 50 Hz rated value         20 33 V           control supply voltage at DC         20 33 V           • rated value         20 33 V           operating range factor control supply voltage rated value of sinitial value         8           • initial value         0.8           • full-scale value         1.1           operating range factor control supply voltage rated value of signate coil at AC         8 1.1           • at 50 Hz         0.8 1.1           • at 50 Hz         0.9 1.1           design of the surge suppressor         with variator           Inrush current peak         50 µs           locked-rotor current mean value         3.2 A           locked-rotor current peak         6.5 A           dout-action of locked-rotor current         150 ms           al 50 Hz         3.5 VA           • al 50 Hz         3.5 VA           • al 50 Hz         3.5 VA           • al 50 Hz         3.5	operating frequency at AC-1 maximum	650 1/h
type of voltage of the control supply voltage at AC	Control circuit/ Control	
type of voltage of the control supply voltage at AC	type of voltage	AC/DC
• at 50 Hz rated value         20 33 V           control supply voltage at DC         20 33 V           • rated value         20 33 V           operating range factor control supply voltage rated value of magnet coil at DC         0.8           • initial value         0.8           • initial value         0.8           • initial value         0.8           • initial value         0.8           • at 50 Hz         0.8 1.1           • at 60 Hz         0.8 1.1           • at 60 Hz         0.8 1.1           design of the surge suppressor         with varistor           inrush current peak         6.5 A           duration of inrush current peak         6.5 A           duration of inrush current peak         6.5 A           duration of locked-rotor current peak         6.5 A           duration of locked-rotor current peak         6.5 A           duration of locked-rotor current         150 ms           holding current mean value         75 mA           apparent pick-up power of magnet coil at AC         163 VA           • at 50 Hz         3.5 VA           • at 60 Hz         3.5 VA           • at 60 Hz         76 W           holding power of magnet coil at DC         76 W<	type of voltage of the control supply voltage	AC/DC
• at 50 Hz rated value         20 33 V           control supply voltage at DC         20 33 V           • rated value         20 33 V           operating range factor control supply voltage rated value of magnet coil at DC         0.8           • initial value         0.8           • initial value         0.8           • initial value         0.8           • initial value         0.8           • at 50 Hz         0.8 1.1           • at 60 Hz         0.8 1.1           • at 60 Hz         0.8 1.1           design of the surge suppressor         with varistor           inrush current peak         6.5 A           duration of inrush current peak         6.5 A           duration of inrush current peak         6.5 A           duration of locked-rotor current peak         6.5 A           duration of locked-rotor current peak         6.5 A           duration of locked-rotor current         150 ms           holding current mean value         75 mA           apparent pick-up power of magnet coil at AC         163 VA           • at 50 Hz         3.5 VA           • at 60 Hz         3.5 VA           • at 60 Hz         76 W           holding power of magnet coil at DC         76 W<	control supply voltage at AC	
control supply voltage at DC         20 33 V           operating range factor control supply voltage rated value of magnet coil at DC         0.8           initial value         0.8           of Iull-scale value         1.1           operating range factor control supply voltage rated value of magnet coil at AC         0.8 1.1           o at 50 Hz         0.8 1.1           o at 50 Hz         0.8 1.1           design of the surge suppressor         with varistor           inrush current peak         6.5 A           locked-rotor current peak         50 μs           locked-rotor current peak         6.5 A           locked-rotor current peak         6.5 A           duration of locked-rotor current         150 ms           holding current mean value         75 mA           apparent pick-up power of magnet coil at AC         163 VA           • at 50 Hz         163 VA           • at 50 Hz         3.5 VA           • at 60 Hz         3.5 VA           closing power of magnet coil at AC         163 VA           • at 60 Hz         3.5 VA           closing power of magnet coil at DC         76 W           holding power of magnet coil at DC         1.8 W           closing power of magnet coil at DC         50 70 ms </td <td></td> <td>20 33 V</td>		20 33 V
control supply voltage at DC         20 33 V           operating range factor control supply voltage rated value of magnet coil at DC         0.8           initial value         0.8           of Iull-scale value         1.1           operating range factor control supply voltage rated value of magnet coil at AC         0.8 1.1           o at 50 Hz         0.8 1.1           o at 50 Hz         0.8 1.1           design of the surge suppressor         with varistor           inrush current peak         6.5 A           locked-rotor current peak         50 μs           locked-rotor current peak         6.5 A           locked-rotor current peak         6.5 A           duration of locked-rotor current         150 ms           holding current mean value         75 mA           apparent pick-up power of magnet coil at AC         163 VA           • at 50 Hz         163 VA           • at 50 Hz         3.5 VA           • at 60 Hz         3.5 VA           closing power of magnet coil at AC         163 VA           • at 60 Hz         3.5 VA           closing power of magnet coil at DC         76 W           holding power of magnet coil at DC         1.8 W           closing power of magnet coil at DC         50 70 ms </td <td>at 60 Hz rated value</td> <td>20 33 V</td>	at 60 Hz rated value	20 33 V
• rated value         20 33 V           operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value         0.8 • full-scale value           operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz         0.8 1.1           • at 60 Hz         0.8 1.1           design of the surge suppressor         with varistor           inrush current peak         6.5 A           duration of inrush current peak         50 µs           locked-rotor current mean value         6.5 A           locked-rotor current mean value         75 mA           apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz         163 VA           • at 50 Hz • at 60 Hz         163 VA           • at 50 Hz • at 60 Hz         3.5 VA           • at 50 Hz • at 60 Hz         3.5 VA           • at 60 Hz         5.0		
operating range factor control supply voltage rated value of magnet coil at DC         0.8           initial value         0.8           offull-scale value         1.1           operating range factor control supply voltage rated value of magnet coil at AC		20 33 V
• full-scale value   1.1	operating range factor control supply voltage rated value of	
operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz • at 60 Hz  design of the surge suppressor inrush current peak 6.5 A duration of inrush current peak 0.6.5 A duration of locked-rotor current mean value 10cked-rotor current peak 6.5 A duration of locked-rotor current 150 ms holding current mean value 150 Hz • at 60 Hz • at 60 Hz • at 50 Hz • at 60 Hz •	• initial value	0.8
magnet coil at AC         0.8 1.1           e at 60 Hz         0.8 1.1           design of the surge suppressor         with varistor           inrush current peak         6.5 A           duration of inrush current peak         50 μs           locked-rotor current mean value         3.2 A           locked-rotor current peak         6.5 A           duration of locked-rotor current         150 ms           holding current mean value         75 mA           apparent pick-up power of magnet coil at AC         at 50 Hz           e at 50 Hz         163 VA           e at 60 Hz         3.5 VA           at 60 Hz         3.5 VA           closing power of magnet coil at DC         76 W           holding power of magnet coil at DC         1.8 W           closing delay         at AC           e at DC         50 70 ms           o at AC         38 57 ms           e at DC         38 57 ms           arcing time         10 20 ms	full-scale value	1.1
● at 60 Hz         0.8 1.1           design of the surge suppressor         with varistor           inrush current peak         6.5 A           duration of inrush current peak         50 μs           locked-rotor current mean value         3.2 A           locked-rotor current peak         6.5 A           duration of locked-rotor current         150 ms           holding current mean value         75 mA           apparent pick-up power of magnet coil at AC         at 50 Hz           • at 50 Hz         163 VA           • at 60 Hz         3.5 VA           a at 60 Hz         3.5 VA           closing power of magnet coil at DC         76 W           holding power of magnet coil at DC         1.8 W           closing delay         at AC           • at DC         50 70 ms           opening delay         at AC           • at AC         38 57 ms           • at DC         38 57 ms           arcing time         10 20 ms		
design of the surge suppressorwith varistorinrush current peak6.5 Aduration of inrush current peak50 μslocked-rotor current mean value3.2 Alocked-rotor current peak6.5 Aduration of locked-rotor current150 msholding current mean value75 mAapparent pick-up power of magnet coil at AC4 63 VA• at 50 Hz163 VA• at 60 Hz3.5 VA• at 60 Hz3.5 VA• at 60 Hz3.5 VAclosing power of magnet coil at DC76 Wholding power of magnet coil at DC1.8 Wclosing delay• at AC• at DC50 70 msopening delay• at AC• at DC38 57 msarcing time10 20 ms	● at 50 Hz	0.8 1.1
inrush current peak         6.5 A           duration of inrush current peak         50 μs           locked-rotor current mean value         3.2 A           locked-rotor current peak         6.5 A           duration of locked-rotor current         150 ms           holding current mean value         75 mA           apparent pick-up power of magnet coil at AC         163 VA           • at 50 Hz         163 VA           • at 60 Hz         3.5 VA           apparent holding power of magnet coil at AC         3.5 VA           • at 60 Hz         3.5 VA           closing power of magnet coil at DC         76 W           holding power of magnet coil at DC         1.8 W           closing delay         at AC         50 70 ms           • at DC         50 70 ms           opening delay         at AC         38 57 ms           • at DC         38 57 ms           arcing time         10 20 ms	● at 60 Hz	0.8 1.1
duration of inrush current peak         50 μs           locked-rotor current mean value         3.2 A           locked-rotor current peak         6.5 A           duration of locked-rotor current         150 ms           holding current mean value         75 mA           apparent pick-up power of magnet coil at AC         163 VA           • at 50 Hz         163 VA           • at 60 Hz         3.5 VA           closing power of magnet coil at AC         3.5 VA           closing power of magnet coil at DC         76 W           holding power of magnet coil at DC         1.8 W           closing delay         4 t AC         50 70 ms           • at DC         50 70 ms           oat AC         38 57 ms           • at DC         38 57 ms	design of the surge suppressor	with varistor
locked-rotor current peak         6.5 A           duration of locked-rotor current         150 ms           holding current mean value         75 mA           apparent pick-up power of magnet coil at AC	inrush current peak	6.5 A
locked-rotor current peak         6.5 A           duration of locked-rotor current         150 ms           holding current mean value         75 mA           apparent pick-up power of magnet coil at AC         163 VA           • at 50 Hz         163 VA           apparent holding power of magnet coil at AC         3.5 VA           • at 50 Hz         3.5 VA           • at 60 Hz         76 W           closing power of magnet coil at DC         76 W           holding power of magnet coil at DC         1.8 W           closing delay         50 70 ms           • at DC         50 70 ms           opening delay         38 57 ms           • at DC         38 57 ms           arcing time         10 20 ms	duration of inrush current peak	50 µs
duration of locked-rotor current         150 ms           holding current mean value         75 mA           apparent pick-up power of magnet coil at AC         163 VA           • at 50 Hz         163 VA           • at 60 Hz         3.5 VA           apparent holding power of magnet coil at AC         3.5 VA           • at 60 Hz         3.5 VA           closing power of magnet coil at DC         76 W           holding power of magnet coil at DC         1.8 W           closing delay         50 70 ms           • at DC         50 70 ms           opening delay         at AC           • at DC         38 57 ms           • at DC         38 57 ms           • at DC         38 57 ms           • at DC         30 20 ms	locked-rotor current mean value	3.2 A
holding current mean value         75 mA           apparent pick-up power of magnet coil at AC         163 VA           • at 50 Hz         163 VA           • at 50 Hz         3.5 VA           • at 50 Hz         3.5 VA           • at 60 Hz         76 W           closing power of magnet coil at DC         76 W           holding power of magnet coil at DC         1.8 W           closing delay         50 70 ms           • at DC         50 70 ms           opening delay         at AC           • at DC         38 57 ms	locked-rotor current peak	6.5 A
apparent pick-up power of magnet coil at AC  • at 50 Hz • at 60 Hz 163 VA  apparent holding power of magnet coil at AC  • at 50 Hz • at 50 Hz • at 60 Hz 3.5 VA  closing power of magnet coil at DC 76 W  holding power of magnet coil at DC 1.8 W  closing delay • at AC • at DC 50 70 ms • at DC  opening delay • at AC • at AC • at AC • at AC • at DC 50 70 ms  opening delay • at AC • at DC 50 70 ms  opening delay • at AC • at DC 50 70 ms  opening delay • at AC • at DC 50 70 ms  opening delay • at AC • at DC	duration of locked-rotor current	150 ms
	holding current mean value	75 mA
	apparent pick-up power of magnet coil at AC	
apparent holding power of magnet coil at AC	● at 50 Hz	163 VA
	● at 60 Hz	163 VA
	apparent holding power of magnet coil at AC	
closing power of magnet coil at DC       76 W         holding power of magnet coil at DC       1.8 W         closing delay <ul> <li>at AC</li> <li>at DC</li> <li>50 70 ms</li> </ul> 50 70 ms         opening delay <ul> <li>at AC</li> <li>at DC</li> <li>38 57 ms</li> </ul> 38 57 ms         arcing time       10 20 ms	● at 50 Hz	3.5 VA
holding power of magnet coil at DC       1.8 W         closing delay <ul> <li>at AC</li> <li>at DC</li> <li>50 70 ms</li> </ul> opening delay <ul> <li>at AC</li> <li>at DC</li> <li>38 57 ms</li> <li>at DC</li> <li>38 57 ms</li> </ul> arcing time       10 20 ms	• at 60 Hz	3.5 VA
holding power of magnet coil at DC       1.8 W         closing delay       50 70 ms         ● at DC       50 70 ms         opening delay       50 70 ms         ● at AC       38 57 ms         ● at DC       38 57 ms         arcing time       10 20 ms	closing power of magnet coil at DC	76 W
closing delay       50 70 ms         ● at AC       50 70 ms         ● at DC       50 70 ms         opening delay       38 57 ms         ● at DC       38 57 ms         arcing time       10 20 ms	holding power of magnet coil at DC	1.8 W
● at DC 50 70 ms  opening delay  ● at AC 38 57 ms  ● at DC 38 57 ms  arcing time 10 20 ms		
opening delay         ● at AC       38 57 ms         ● at DC       38 57 ms         arcing time       10 20 ms		50 70 ms
opening delay         ● at AC       38 57 ms         ● at DC       38 57 ms         arcing time       10 20 ms	• at DC	50 70 ms
● at AC  ■ at DC  38 57 ms  38 57 ms  arcing time  10 20 ms		
● at DC 38 57 ms arcing time 10 20 ms		38 57 ms
arcing time 10 20 ms		
· ·		
control version of the switch operating mechanism Standard A1 - A2	•	

Auxiliary circuit		
number of NC contacts for auxiliary contacts	1	
attachable	2	
instantaneous contact	1	
	1	
number of NO contacts for auxiliary contacts  • attachable	2	
instantaneous contact	1	
	10 A	
operational current at AC-12 maximum	IOA	
operational current at AC-15	G A	
at 230 V rated value	6 A	
at 400 V rated value	3 A	
at 500 V rated value	2 A	
at 690 V rated value	1A	
operational current at DC-13	40.4	
• at 24 V rated value	10 A	
at 48 V rated value	2 A	
at 60 V rated value	2 A	
at 110 V rated value	1A	
• at 125 V rated value	0.9 A	
at 220 V rated value	0.3 A	
at 600 V rated value	0.1 A	
design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required	gG: 10 A (230 V, 400 A)	
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)	
Short-circuit protection		
product function short circuit protection	No	
design of the fuse link		
<ul> <li>for short-circuit protection of the main circuit</li> </ul>		
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 250 A (690 V,100 kA)	
<ul> <li>— with type of assignment 2 required</li> </ul>	gR: 250 A (690 V, 100 kA)	
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)	
Installation/ mounting/ dimensions		
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface	
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	
side-by-side mounting	Yes	
height	140 mm	
width	70 mm	
depth	152 mm	
required spacing		
<ul> <li>with side-by-side mounting</li> </ul>		
with side-by-side mounting		
with side-by-side mounting     — forwards	20 mm	
	10 mm	
— forwards	10 mm 10 mm	
<ul><li>forwards</li><li>upwards</li><li>downwards</li><li>at the side</li></ul>	10 mm	
<ul><li>forwards</li><li>upwards</li><li>downwards</li></ul>	10 mm 10 mm	
<ul><li>forwards</li><li>upwards</li><li>downwards</li><li>at the side</li></ul>	10 mm 10 mm 0 mm	
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> </ul>	10 mm 10 mm 0 mm	
<ul> <li>— forwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> <li>• for grounded parts</li> <li>— forwards</li> </ul>	10 mm 10 mm 0 mm	
<ul> <li>— forwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> <li>• for grounded parts</li> <li>— forwards</li> <li>— upwards</li> </ul>	10 mm 10 mm 0 mm 20 mm 10 mm	
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> </ul>	10 mm 10 mm 0 mm 20 mm 10 mm 10 mm	
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> </ul>	10 mm 10 mm 0 mm 20 mm 10 mm 10 mm	
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> </ul>	10 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm	
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> </ul>	10 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm	
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul>	10 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm	
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>upwards</li> <li>upwards</li> <li>downwards</li> <li>downwards</li> <li>downwards</li> <li>downwards</li> <li>downwards</li> <li>downwards</li> <li>downwards</li> </ul>	10 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm	
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul>	10 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm	
— forwards — upwards — downwards — at the side  • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards — forwards — at the side — downwards — upwards — upwards — upwards — downwards — at the side  Connections/ Terminals	10 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm	
- forwards - upwards - downwards - at the side  • for grounded parts - forwards - upwards - at the side - downwards  • for live parts - forwards - upwards - at the side - downwards - torwards - torwards - upwards - upwards - upwards - downwards - at the side  Connections/ Terminals  type of electrical connection	10 mm 10 mm 0 mm 20 mm 10 mm	
- forwards - upwards - downwards - at the side  • for grounded parts - forwards - upwards - at the side - downwards  • for live parts - forwards - upwards - upwards - at the side - forwards - forwards - upwards - upwards - downwards - at the side  Connections/ Terminals  type of electrical connection • for main current circuit	10 mm 10 mm 0 mm 20 mm 10 mm	

type of connectable conductor cross-sections for main contacts		
• solid	2x (2.5 16 mm²)	
• stranded	2x (2,5 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²)	
<ul> <li>solid or stranded</li> </ul>	2x (2.5 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²), 1x (2.5 50 mm²)	
connectable conductor cross-section for main contacts		
• solid	2.5 16 mm²	
<ul> <li>solid or stranded</li> </ul>	4 70 mm²	
<ul><li>stranded</li></ul>	6 70 mm <sup>2</sup>	
<ul> <li>finely stranded with core end processing</li> </ul>	2.5 50 mm²	
connectable conductor cross-section for auxiliary contacts		
<ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²	
type of connectable conductor cross-sections		
<ul> <li>for auxiliary contacts</li> </ul>		
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
<ul> <li>solid or stranded</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)	
Safety related data		
product function		
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes	
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No	
proportion of dangerous failures		
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %	
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %	
T1 value for proof test interval or service life according to IEC 61508	20 a	
protection class IP on the front according to IEC 60529	IP20	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
Certificates/ approvals		

## **General Product Approval**



Confirmation





<u>KC</u>



EMC Functional Safety/Safety of chinery	a- Declaration of Conformity	Test Certificates
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Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

## Marine / Shipping













other	Railway	Dangerous Good

#### **Further information**

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

#### Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

## Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2446-1NB30

#### Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2446-1NB30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2446-1NB30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

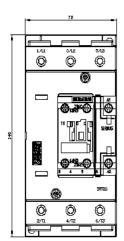
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2446-1NB30&lang=en

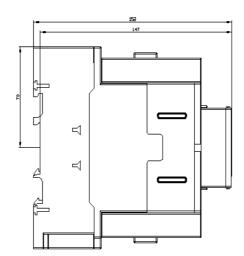
Characteristic: Tripping characteristics, I2t, Let-through current

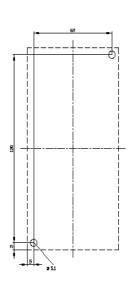
https://support.industry.siemens.com/cs/ww/en/ps/3RT2446-1NB30/char

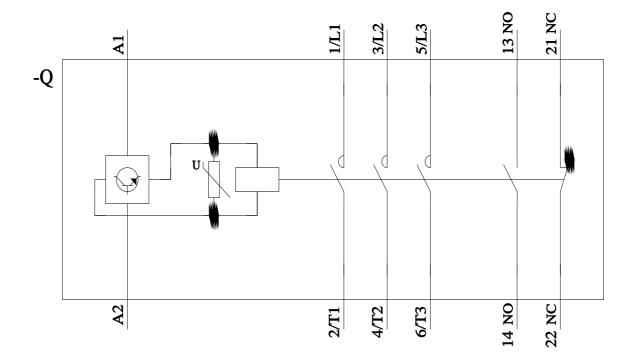
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2446-1NB30&objecttype=14&gridview=view1









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